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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/073,213	02/13/2002	Takeshi Nagashima	46275	4799
20736	7590 09/27/2005		EXAMINER	
MANELLI DENISON & SELTER 2000 M STREET NW SUITE 700			SHEWAREGED, BETELHEM	
	ON, DC 20036-3307		ART UNIT	PAPER NUMBER
•			1774	

DATE MAILED: 09/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summany		10/073,213	NAGASHIMA ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Betelhem Shewareged	1774				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exte after - If NC - Failu Any	IORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAINS ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Disperiod for reply is specified above, the maximum statutory period ware to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)🖂	Responsive to communication(s) filed on 30 Ju	une 2005.					
•		action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,	closed in accordance with the practice under E	•					
Disposit	ion of Claims						
4)⊠	Claim(s) 1-11 and 13-33 is/are pending in the	application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)🖂	i)⊠ Claim(s) <u>24-33</u> is/are allowed.						
6)🖾	☐ Claim(s) <u>1-3,7-11,13-16 and 20-23</u> is/are rejected.						
7)🖂							
8)[Claim(s) are subject to restriction and/or	r election requirement.					
Applicat	ion Papers						
9)	The specification is objected to by the Examine	P r.	•				
10)	The drawing(s) filed on is/are: a) ☐ acce	epted or b) objected to by the f	Examiner.	*			
•	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).				
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority ι	under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign ⊠ All b) Some * c) None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a)ı	1.⊠ Certified copies of the priority documents	s have been received					
	Certified copies of the priority documents	· ·	ion No.				
	3. Copies of the certified copies of the prior	•					
	application from the International Bureau	•					
* 5	See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachmen	•						
	e of References Cited (PTO-892)	4) Interview Summary					
3) 🛛 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ate Patent Application (PTO-152)				
Pape	er No(s)/Mail Date <u>6/30/05</u> .	6) Other:	·				
. =	1 10%						

DETAILED ACTION

1. Applicant's response filed on 06/30/2005 has been fully considered. Claims 1-11 and 13-33 are pending.

Priority

2. The requested translation of the foreign application has not been submitted yet.

Claim Rejections - 35 USC § 103

3. Claims 1-3, 7-11, 13-16 and 20-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. (US 6,096,469) in view of Ishii et al. (US 2001/0053435 A1).

Anderson discloses an ink jet receptor media having a substrate and an ink receptor media on the substrate (abstract). The substrate is a polyester polymeric film (col. 10, line 38). The ink receptor media comprises particles (col. 4, line 39) and hydrophilic binder such as polyvinyl alcohol (col. 9, line 25). For applications in which transparency is desired, the particles have a mean particle size of about 10 to less than 50 nm (col. 6, line 66). The particles are silica prepare by wet process and comprise silane group (col. 7, lines 6-49). The ink receptor media may be coated on both sides of the substrate (col. 11, line 6), and the ink receptor media coated on the backside of the substrate is equivalent to the claimed back-coating layer. With respect to void ratio value it is elementary that the mere recitation of newly discovered function or property, inherently possessed by things in the prior art, does not cause a claim drawn to those

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things to distinguish over the prior art. *In re swinehart et al.*, 169 USPQ 226 at 229. Since the Anderson reference teaches all of Applicant's claimed compositional and positional limitations, it is inherent that the reference article function in the same manner claimed by Applicant. The burden is upon Applicant to prove that the subject matter shown to be in the prior art does not possess the characteristic relied on.

Anderson further teaches that the ink receptor media comprises cationic polymers that are pigment particles (col. 9, lines 62-65). However, Anderson fails to disclose the particle size of the cationic polymer particles. The experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected results. *In re Aller*, 105 USPQ 233. One of ordinary skill in the art would have been motivated to adjust the particle size in order to optimize the ink fixing property of the layer. A prima facie case of obviousness may be rebutted, however, where the results of the optimizing variable, which is known to be result-effective, are unexpectedly good. *In re Boesch and Slaney*, 205 USPQ 215.

Anderson does not expressly disclose the solid content of the ink receptor media applied on either side of the substrate. The experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected results. *In re Aller*, 105 USPQ 233. One of ordinary skill in the art would have been motivated to adjust the solid content of the receptor media applied on either side of the substrate in order to optimize curling and ink-absorbing properties of the layer. A prima facie case of obviousness may be

rebutted, however, where the results of the optimizing variable, which is known to be result-effective, are unexpectedly good. *In re Boesch and Slaney*, 205 USPQ 215.

Anderson dose not disclose the opacity of the substrate.

Ishii teaches a recording material comprising a substrate and an ink receiving layer provided on the substrate (abstract). The substrate comprises a transparent PET having opacity of 13-16% [0034].

Anderson and Ishii are analogous are because they are from the same field of endeavor that is the ink jet recording material art. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the substrate of Ishii with the invention of Anderson in order to provide a recording material that can be used for an optical device such as a slide and overhead projector [0014].

With respect to claims 13 and 14, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to obtain a blue film by adding a blue color while the film is been processed. Changing a color of a film by adding a color pigment is notoriously known in the art.

Response to Arguments

4. Anderson discloses an ink jet receptor media comprising a substrate and ink receptor media applied on both sides of the substrate. The ink receptor media on one side of the substrate is equivalent to the claimed ink receptive layer and the ink receptor media on the other side of the substrate is equivalent to the claimed backing layer.

Therefore, having a layer on a back side of a substrate is known. Furthermore, Ishii is

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used to teach the opacity of the substrate. Ishii uses a substrate of several types of paper including non-wood paper and PET. For the above reason 1-3, 7-11, 13-16 and 20-23 stand rejected.

Allowable Subject Matter

- 5. Claims 4-6 and 17-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Claims 24-33 are allowed.
- 7. The combination of Anderson and Ishii neither teach nor suggest having two ink receptor media of outermost ink receptor media and innermost ink receptor media, wherein the outermost media comprising alumina or alumina hydrate having the claimed particle size and the innermost media comprising fumed silica having the claimed particle size.

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Betelhem Shewareged whose telephone number is 571-

272-1529. The examiner can normally be reached on Mon.-Fri. 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

B.S.

September 17, 2005.

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